



DCZ TALKS Webinar on Sustainable Soil Management
Review of the Harbin event “Advanced Technologies and Ecological
Practices for Black Soil Protection in Heilongjiang”

Juergen Simon, CLAAS Marketing
2024-12-10.

CLAAS



Sustainable Approaches to Black Soil Protection, Harbin, 16~18 June 2024

Date and location

16 – 18 June 2024, Harbin, Heilongjiang

Organizers

- Sino-German Agricultural Centre (DCZ)
- Foreign Economic Cooperation Center (FECC)
- Heilongjiang Academy of Agricultural Sciences (HAAS)
- German Embassy

Activities

1. Visit of the Museum and Business Exchange with the biggest Chinese State Farm Beidahuang Visit of German Center Harbin
2. Symposium on sustainable soil management
3. Visit experimental field site of HAAS
4. Participation in Horsch Field Day

German Delegation

- ✓ German Consul General
- ✓ Agricultural and Food Counsellor and Assistant of German Embassy
- ✓ Team of DCZ
- ✓ German Associations: VDMA, AHK, GTAI
- ✓ German Agronomic Experts
- ✓ German Finance Institutes: LWWB
- ✓ German Ag Tech Companies: AMAZONE, BAYER, CLAAS, GRIMME, HORSCH, LEMKEN, RAUCH.

Sustainable Approaches to Black Soil Protection, Harbin, 16~18 June 2024

Visit of the Museum and Business Exchange with the biggest Chinese State Farm Beidahuang



Source: photo © DCZ

Sustainable Approaches to Black Soil Protection, Harbin, 16~18 June 2024
Visit of the German Center Harbin



Sustainable Approaches to Black Soil Protection, Harbin, 16~18 June 2024 Symposium on Sustainable Soil Management



Sustainable Approaches to Black Soil Protection, Harbin, 16~18 June 2024

Visit experimental field site of HAAS



Source: photo © HAAS

At the test site of the Harbin Academy of Black Soil Conservation and Utilization, © HAAS



Source: photo © HAAS

Different types of fertilizers are tested, © HAAS

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Participation in Horsch Field Day



At the HORSCH field day in Harbin, © DCZ

Conclusions

Heilongjiang: China's #1 Province annual grain output: 80 million tons

First country to protect black soil
through legislation –
China's Black Soil Protection Law 2022.
Impact to be evaluated.

- ▶ Soil erosion, loss of organic matter, and compaction are leading to **severe soil degradation**. Over 60% of black soil farmland in the region is affected.
- ▶ Extremely **low temperatures in winter** and **short growing seasons**
- ▶ Spatial **separation of crop and livestock farming** disrupts nutrient cycles.

Source:

<https://www.dcz-china.org/2024/06/17/symposium-presents-approaches-to-sustainable-black-soil-use/> Dr Michaela Boehme

Possible Solutions

- ▶ Focus on technical as well as practical approaches to **halt soil degradation**
- ▶ **New tillage methods** to minimize intrusive soil management
- ▶ **Soil cover in winter**: Leaving straw on the ground prevents soil erosion from wind and helps retain moisture.
- ▶ **Better nutrient management**: Improved fertilization strategies, crop rotations, and intercropping promote nutrient recycling and enhance soil carbon.
- ▶ **Landscaping elements**: Integrating trees, hedgerows, and reinforced field strips into agricultural fields **prevents soil erosion**.
- ▶ **Structural changes**: Re-integrating crop and animal production closes carbon and nitrogen cycles.

German Ag Companies are ready for the challenge

- ✓ 最新技术和产品
Latest Technologies and Products
- ✓ 国际经验 International Expertise
- ✓ 扎根中国 Rooted in China
- ▶ Exchange & Joint Learning
- ▶ Adaption to local conditions
- ▶ Training

2024-07-20 | First CLAAS Customer Experience Center in Heilongjiang: Customer + Dealer + CLAAS



Hosted on the **site of a reference customer**.

Show-casing **technology in a real-work environment**

- ▶ promotion events
- ▶ field demos
- ▶ trainings



2024-10-31 | Opening of CLAAS China Northeast Operation Center in Harbin



Incl Chairwoman Ms Claas-Muehlhaeuser and Members of Group Management

- ▶ **CLAAS China Northeast Operation Center** in Harbin,
- ▶ **strategic cooperation agreement** for the “Sino-German Agricultural Equipment Future Technology Industrial Park.”

- ▶ **Local presence, technical and service support**

to promote local agricultural modernization and efficient production.



谢谢大家。
Thank you for your attention.

Inputs for Consideration

Q: Despite widespread awareness of effective practices for improving soil health, the rate of adoption among farmers remains limited, and soil degradation continues. What specific policy measures, financial incentives, or educational programs could governments implement to accelerate the integration of sustainable soil management practices on farms? How can these measures address the economic and practical challenges farmers face?

· **Smart Agriculture Program by MARA**

→ Reach digitalization rate in agriculture of 35% by 2030

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Study, Understand and Prepare

Working Group “Smart Agriculture” under VDMA: How to prepare German Ag Companies to meet the upcoming industry standards

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Test, Optimize, Demo & Train

Idea: **DCZ Smart Agriculture Demo Farm** together with German Ag machinery companies; e.g. in Liaoning, Shenyang

If you are interested, pls contact us.